



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,099	04/09/2004	Fang-Jwu Liao		1704
25859	7590	09/21/2004	EXAMINER	
WEI TE CHUNG FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE SANTA CLARA, CA 95050			DINH, PHUONG K	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

172

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/822,099	LIAO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Fuong KT Dinh	2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 09 April 2004.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____ .  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>04/04</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____ .                                  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. Claim 1, the phrase, "the preventing supporting the electrical device to prevent the conductive member from electrically touching the parts of the retention bodies of other terminal adjacent the terminal" is unclear. How this occurs is unclear since even without projection 321 the conductive members will not touch retention members of adjacent contacts. No such touching seems possible in figure 14 system.

4. Claim 12, "said projection supporting the electrical device and the height of said projection is higher enough than said distance to prevent the conductive member from electrically engaging the parts of the retention member bodies of other terminal adjacent said terminal" is unclear.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2839

6. Claims 1-5, 7-16, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Maldonado (U. S. Patent 6,604,950).

7. Regarding claims 1-4, 8, 10-16, 18, APA discloses a socket 90 for electrically interconnecting an electrical device having conductive member arranged thereon, the socket comprising: a dielectric housing defining a, mounting surface toward the electrical device and a plurality of terminals passageway 96 extending from the mounting surface. A plurality of terminals 94 received in the terminal passageway respectively, each of the terminals comprising a retention body 940 secured in a corresponding terminal passageway a cantilever arm 942, 944 extending from the retention body beyond the mounting surface mechanically and electrically engaging a corresponding conductive member of the electrical device, the retention body having a part thereof extending toward the electrical device and in flush with the mounting surface.

8. APA discloses the claimed invention except for a plurality of projections provided on the mounting surface and projecting toward electrical device. Maldonado discloses the plurality of projections 26, 32 provide on the mounting surface and projecting toward electrical device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify APA to provide the plurality of the projections as taught by Maldonado so as to provide support and allow flow of air for cooling.

Art Unit: 2839

9. Regarding claims 5, 16 APA, see figure 14, discloses the terminal passageway 96 each have a securing section and a receiving section vertical to and in communication with the securing section.

10. Regarding claim 7, APA discloses the housing 90 defines a mating surface opposite to the mounting surface, the retention body 940 projects beyond the mating surface a vertical distance.

11. Regarding claim 9, APA and Maldonado disclose the housing has a plurality of protrusion provided on the mating surface, but do not have the protrusion having a height relative to the mating surface longer and vertical distance. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the protrusion having height relative to the mating surface longer and vertical distance so as to insure proper contacts.

12. Claims 6 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over APA in view Maldonado and further in view of Eldride (U. S. Patent 6,705,876).

13. Regarding claims 6 and 17, APA and Maldonado disclose the claimed invention except for the projections each are situated at one side of the receiving section of a corresponding terminal passageway opposing to the securing section of the terminal passageway. Eldride discloses stops 606 and 607 (figure 6A), 953 (figure 9F) and (figures 5, 9), which are situated at one side of the receiving of a corresponding terminal passageway. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify APA and Maldonado to provide the stops are

Art Unit: 2839

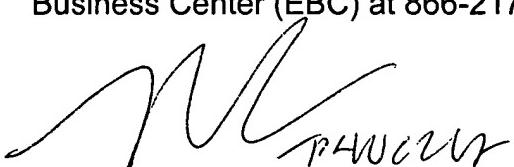
situated at one side of the receiving of a corresponding terminal passageway as taught by Eldridge so as to insure that contacts are uniformly compressed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong KT Dinh whose telephone number is 571-272-2090. The examiner can normally be reached on 8 -5, 5 days a week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phuong Dinh  
September 11, 2004.